Center for Total Artificial Hearts & Biomedical Devices

Distinguished Center

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converter and unified ventricles that will fit in humans. Other implant projects include the urinary bladder, urethra, ureter and a sphincter. The center's scope of research includes: conceptualization, prototype development, fabrication, bench and implant testing and assessment. Received "Distinguished Center" status in 1991. Established as a center in 1987. Currently developing the first electro-hydraulic artificial heart (an advanced version of the JARVIK-7) which utilizes a single energy

| <u>Overview</u> | 198 | Technologies | Status | Economic Impact |
|---------------------------|--------------|--|----------------------------|--------------------|
| Current State Contract | | *Engineering-miniature hydraulics, device | *Have established | *\$10 million |
| | | design, design analysis, CNC machining | shared leadership in | backlog in |
| Matching Funds | \$2,769,003 | capability, computer machining capability, | electric artificial heart | research |
| | \$10,755,877 | device fabrication, polymers, plastics, | projects | |
| | | metallics and QA/QC | | *Have formed |
| Center Related Jobs | 51 | | *Have only system with | joint venture |
| | | *Electrical design & fabrication | motor backup | company, Cardio |
| Industry Jobs Created | 1 | | capabilities | West with Ariz. |
| | | *Integrated circuits & VLSI | | Med Ctr. |
| Benefiting Utah Companies | 1 | | *Considered world | |
| | | *Device testing | leader in artificial organ | *Re-acquired |
| Patents Applied | ప | | research | pneumatic heart |
| | | *Animal experimentation-surgery, | | rights to |
| Patents Issued | Ν. | radiology, hematology, immunology, | *Conducting animal | reinstate testing. |
| | | biochemistry, pathology, device retrieval | studies for fully | |
| License Agreements | కు | analysis | implantable electric | |
| | | | artificial heart | |